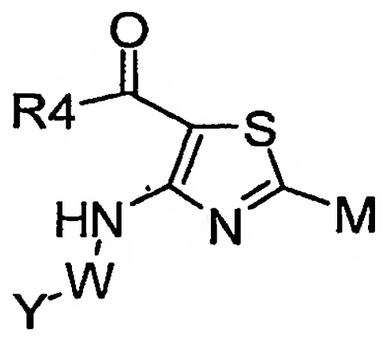
What is claimed is

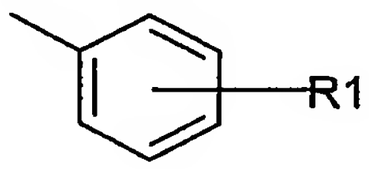
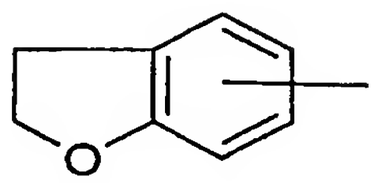
1. A compound of the formula I, or a salt, solvate, or a physiologically functional derivative thereof

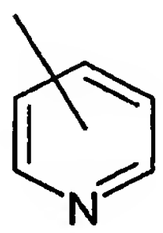


I

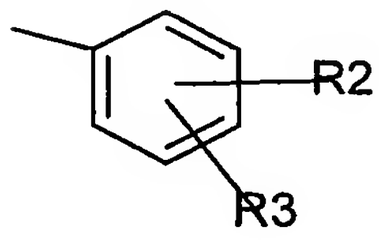
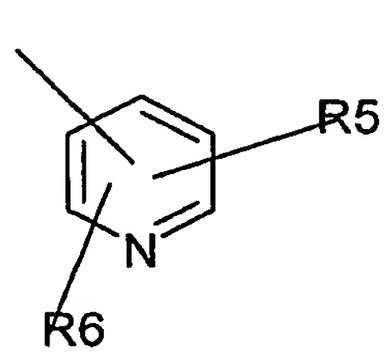
in which

M is a radical of the formula

 ,  , or

 ;

Y is a radical of the formula

 or  ; and

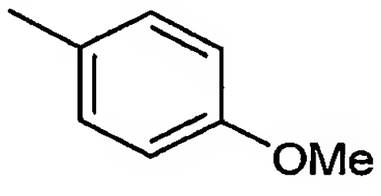
R1, R2 and R3 are independently hydrogen, -$NH_2$, halogen, -$OC_{1-6}$alkyl, -$CF_3$, -$N(C=O)CH_3$, -$(C=O)OH$, -$CF_3$, -$(C=O)NH_2$, -$SO_2CH_3$, -$SO_2OH$, or -$C_{1-6}$alkyl;

W is -$(CH_2)_n$-, in which n is 0 to 2; and

R4 is -$NH_2$, or -OH; and

R5 and R6 are independently hydrogen or halogen.

2. A compound of Formula I of claim 1 in which M is a radical of the formula



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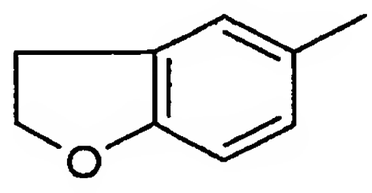

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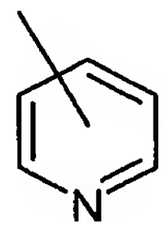
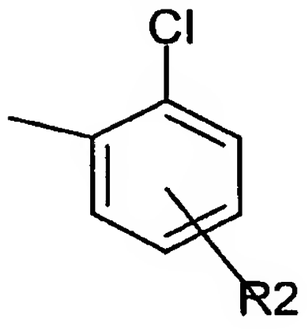


;

Y is a radical of the formula



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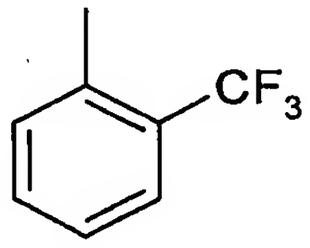

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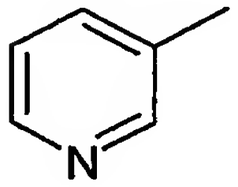

; and

in which R2 is hydrogen, -$NH_2$, halogen, -$OC_{1\text{-}6}$ alkyl, -$CF_3$, -$N(C{=}O)CH_3$, -$(C{=}O)OH$, -$CF_3$, -$(C{=}O)NH_2$, -$SO_2CH_3$, -$SO_2OH$, or -$C_{1\text{-}6}$alkyl.

3. A method of inhibiting hYAK3 and/or CK2 in a mammal; comprising, administering to the mammal a therapeutically effective amount of a compound of

formula I of claim 1, or a salt, solvate, or a physiologically functional derivative thereof.

4. A pharmaceutical composition including a therapeutically effective amount of a compound of formula I of claim 1, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

5. A method of treating or preventing diseases of the erythroid and hematopoietic systems selected from the group consisting of: neutropenia; cytopenia; anemias, including anemias due to renal insufficiency or to a chronic disease, such as autoimmunity, HIV or cancer, and drug-induced anemias; and myelosuppression; comprising administering to a mammal a therapeutically effective amount of a compound of formula I of claim 1, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

6. A method of treating or preventing cancer or viral infections; comprising administering to a mammal a therapeutically effective amount of a compound of formula I of claim 1, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

7. A compound of formula I of any of claim 1, 3, 4, 5, or 6 selected from the group consisting of

4-anilino-5-carboxyl-2-(4-methoxyphenyl)thiazole;

4-anilino-5-methoxycarbonyl-2-(4-methoxyphenyl) thiazole;

5-aminocarbonyl-2-(3-methoxyphenyl)-4-(2-trifluoromethylanilino)thiazole;

5-methoxycarbonyl-2-(3-methoxyphenyl)-4-(2-trifluoromethylanilino) thiazole;

5-carboxyl-2-(4-methoxyphenyl)-4-(2-trifluoromethyl)anilinothiazole;

5-aminocarbonyl-2-(3-methoxyphenyl)-4-(2-trifluoromethylanilino)thiazole;

5-carboxyl-4-(3-fluoroanilino)-2-(4-methoxyphenyl)thiazole;

5-carboxyl-2-(4-methoxyphenyl)-4-(2-trifluoromethylanilino)thiazole;.

4-anilino-5-carboxyl-2-(3-methoxyphenyl)thiazole;

5-carboxyl-4-(2-fluoroanilino)-2-(3-methoxyphenyl)thiazole;

4-benzylamino-5-methoxycarboxyl 2-(4-methoxyphenyl)thiazole

4-(2-chloro-phenylamino)-2-(2,3-dihydro-benzofuran-5-yl)-thiazole-5-carboxylic acid ethyl ester;

4-(2-chlorophenylamino)-2-(2,3-dihydrobenzofuran-5-yl) thiazole-5-carboxylic acid;

4-(2-chlorophenylamino)-2-(2,3-dihydrobenzofuran-5-yl) thiazole-5-carboxylic acid amide;

4-(2-chloro-5-fluorophenylamino)-2-(2,3-dihydrobenzofuran-5-yl) thiazole-5-carboxylic acid amide;

4-(2-chlorophenylamino)-2-(4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(5-acetylamino-2-chlorophenylamino)-2-(4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(5-carbamoyl-2-chlorophenylamino)-2-(4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(2-chloro-5-sulfophenylamino)-2- (4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(5-amino-2-chlorophenylamino)-2- (4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(2-chloro-4-methanesulfonylphenylamino)-2-(4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(4-carboxy-2-chlorophenylamino)-2-(4-methoxyphenyl) thiazole-5-carboxylic acid;

4-(2-chlorophenylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid;

4-(3,5-dichloropyridin-4-ylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid;

2-pyridin-3-yl-4-(pyridin-3-ylamino)-thiazole-5-carboxylic acid;

4-(2-chlorophenylamino)-2-(pyridin-4-yl)-thiazole-5-carboxylic acid;

4-[2-(3-chlorophenyl) ethylamino]-2-(pyridin-4-yl) thiazole-5-carboxylic acid;

4-[2-(3-chlorophenyl) ethylamino]-2-(pyridin-4-yl)-thiazole-5-carboxylic acid amide;

4-(2-chloro-5-fluorophenylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid;

4-(2-chloro-5-fluoro-phenylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid amide;

2-(pyridin-3-yl)-4-(2-trifluoromethyl-phenylamino) thiazole-5-carboxylic acid amide;

4-(4-chlorobenzylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid; and

4-(4-chlorobenzylamino)-2-(pyridin-3-yl) thiazole-5-carboxylic acid.